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Course Objectives, Syllabus, and Course Policies
Spring 2026

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"I have never let my schooling interfere with my education."

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-Mark Twain (1835-1910)

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COURSE: **ENGR1201 – Introduction to Engineering**
Lectures: Mondays and Wednesdays 10:10-11:05 a.m. in RBN 3039

COURSE DESCRIPTION: An introduction to the engineering profession with emphasis on technical communication and team-based engineering design. Two hours of lecture per week.

REQUIRED TEXT: Discovering Engineering Design in the 21st Century, by Striebig, Bradley A. 1st Edition, Cengage Press (2024), ISBN # 978-0-357-68520-4.
Paperback available and in e-print format available from Cengage
https://www.cengage.com/student/ .

INSTRUCTOR: Dr. J. Torey Nalbone, Office – RBS 2003; Phone – 903 – 565 – 5520–
tnalbone@uttyler.edu
Office hours generally 0730 – 0900 M, T, & W or as posted or with appointment when other arrangements are made.

Also available is a ZOOM Office hours available during Regular hours and you are welcome to seek additional instruction. **I have set aside virtual office hours via ZOOM posted on Canvas.**

Topic: Dr. Nalbone's Zoom Office Hours Monday, Tuesday and Wednesday

Torey Nalbone is inviting you to a scheduled Zoom meeting.
Join Zoom Meeting
https://uttyler.zoom.us/j/89351558544?pwd=ViTwLVnmaRhGCR8ZfGgr0dOoALab0f.1

Meeting ID: 893 5155 8544
Passcode: 843084

We will also have guest lecturers from time to time. An appropriate introduction will be provided when they arrive for their presentation.

ABOUT THE COURSE

This course is all about you. It will focus on the tools for you to be a success in your journey as an engineering student. The course objectives are also the foundation stones for you becoming a successful practicing engineer and to meet these long-term goals for the course and for you. We will see how math and science establish the foundation for engineering analysis and design and how we work to maximize the use of computers in support of our work. You will hear practicing engineers and computer scientist talk about real world engineering and computer science problems. You will do projects to be introduced to analysis and the engineering design process. We have six (6) specific objectives in this course (listed below), each is focused on an essential skill for success as an engineering student and as an engineer in the future. They can be generally grouped and summarized as learning about how engineering impacted the modern world, introduce you to some of the tools and techniques you will need to complete your studies in engineering, and give you an appreciation for the engineering profession. In this course you will also explore how engineering has impacted the modern world

Course Objectives

a.   Explain the engineering profession and engineering ethics.
b.   Explain engineering analysis and design using the proper techniques and processes to plan and execute.
c.   Use technical communication skills to explain the results/analysis of process of design and data presentation.
d.   Contribute as a member of a design team to construct a simple engineering device, write a design report, and present the design as part of team and participate in a competition for design adequacy and specification adherence.
e.   Demonstrate computer literacy with the use of computer tools for engineering.
f.   Analyze the impact engineering has had on the modern world.

Topics Covered

- The impact engineering had in the Modern World
- Introduction to engineering as a profession and career
- Design project processes of applying specifications and engineering constraints.
- Technical report writing skills, style and proper documentation.
- Technical presentation skills, different methods.
- Study skills using library activities.
- Engineering competence by use and reference to standards, specifications and codes.
- Development of essential professional survival skills (resumes, social media, interviewing, etc.)

CANVAS

Course syllabus and all course material including handouts will be posted on CANVAS Please review all the material posted on CANVAS on a regular basis. We will also use Announcements with in CANVAS to post announcements, record grades and contact students. Contact of student's may also be accomplished through e-mail. Only a student's assigned UT Tyler email address will be used for all course correspondence, so be certain to check it often.

ATTENDANCE

Regular attendance is imperative if you want to do well in college and specially this course. Therefore, **regular attendance is required,** and course grades WILL be adjusted if necessary, within the Grading rubric covered by Professional Practice. (See below)

Important and Continued Public Health Information for Classrooms and Team Activities

UT Tyler is operating under general good public health practices and guidance. If you do not feel well then stay home, and notify the instructor of the anticipated absence when feasible. Self- isolation is important to reduce exposure whether a cold, flu or other contagious ailment. You may visit the (CDC quarantine/isolation guidelines).if needed. Please work with your instructor(s) to maintain coursework and please consult existing campus resources when available or your instructor.

CLASS OPERATIONS

1) All materials will be placed on the Canvas Platform for access including links to class lecture.
2) All important information will be communicated in this syllabus or through timely class wide announcements posted in CANVAS.
3) All Announcements are important and are also part of the consideration for Professional Practice. A record of attendance will be made for every class meeting. A student's failure in meeting the minimum attendance requirement may result in a grade of "F" in the course (see grading section). In case you must miss a class please contact the instructor as soon as feasible, preferably prior to the absence. It is however your responsibility to keep up with the class work and be informed of all announcements made in the class on assignments, work to be submitted, lab/project reports, communication with your project team members, etc.

RESEARCH/TECHNICAL PAPER

Each student will write a research/technical paper in this course with both draft and final (revised) versions graded. Details will be announced in class. **Everyone will be required to take their outline and drafts to the writing center to be evaluated.** WRITING CENTER: The UT-Tyler Writing Center provides professional writing tutoring for all students. You will be provided additional information on how to access this resource as the course moves forward. When you use the Writing Center, you should plan in advance for a minimum of one-two hour-long tutorials per assignment: the first to assess your needs, and the second to follow up. Be prepared to take an active role in your learning, as you will be asked to discuss your work. While Writing Center tutors are happy to give constructive criticism and teach effective writing techniques, they will under no circumstances write your paper for you. Appointments are required and should be anticipated that the available times will be limited. So, start early and consider the resources often when writing anything for this course is strongly encouraged: Appointments call 903-565-5995, or visit http://www.uttyler.edu/writingcenter/

DESIGN PROJECT

Each student is required to participate in a semester design project will be assigned. Instructions and rules will be provided.

FINAL GRADES

Final grades in this course are based on:

Professional Practice	12.5%	250 points
Written assignments	22.5%	450 points
Technical Paper (Outline & Final)	35%	700 points
Team Design Element (See Team Rules)	30%	600 points
Total	100%	2000points

FINAL GRADES ASSIGNMENT

HI	LOW	%	Final Grade
2000	1800	90%	A
1799	1600	80%	B
1599	1400	70%	C
1399	1200	60%	D
1199	0	<60%	F

<u>What is Professional Practice?</u> – There are certain expectations of professionals in the workplace (especially of engineers) and those same expectations are key components in this course and in preparing you for success as an engineering student. These practices demonstrate that an engineer is:

a) Prepared – students are expected to be prepared for the lesson by reading or completing assigned materials prior to class.
b) Present – students are expected to attend class (see above) just as an employer will count on your presence at work we count on your attendance to class. Any student present less than 60% of the class meetings, lectures or lessons may fail the course.
c) Punctual – students are expected to submit assignments according to the attached class schedule or due date provided on the assignment sheet. Assignments are due prior to class submitted through the appropriate CANVAS portal for the assignment. Assignments turned in after class starts will be considered late.
d) COORDINATED LATE Submission penalties are as follows:
    i)   Course assignment turned in late
        (1) but prior to 5:00p.m. (1700 hrs.) on the date due - 5% reduction
        (2) within one (1) day of the due date - 15 % reduction; homework turned in within two days of the due date will receive a 25 % reduction. *No credit will be given for homework turned in more than two days late*. **<u>You will receive an Incomplete in the Course if all Assignments have not been submitted.</u>** Obviously there may be circumstances that will occur and make a timely submission impossible. Notify me immediately and I will work with you if/when they occur.
e) Participating – students are expected to contribute to each lesson when called upon during class and as a member of their design/work teams.

<u>WRITTEN ASSIGNMENT FORMAT</u>

The production of a neat, organized, high-quality assignments cannot be overestimated nor can its importance to your course grade be overstated. An assignment should be something you are proud of and not something hastily "slapped together". Toward this end, considerable emphasis will be placed on not only getting the assignment completed, but also on completion and in accordance to format and style requirements. These format and style requirements will be provided on CANVAS but will also be included in each assignments sheet. As an engineer your goal is to make a clear, logical, and professional presentation of your work, which is both accurate, correct and appropriately attributed to sources relied upon for your completion of the assignment. As previously mentioned, all submissions are due at the <u>beginning</u> of class on the due date. The Late grade deduction is as Follows

SUBMISSION	LATE Penalty
Due date at prior to beginning of class or earlier	No Penalty
After class but before 1700 (5:00 p.m.) of due date	25% reduction
One (1) day late (next day at midnight)	50% reduction
Two (2) days late (second day after assignment due)	No points

Late submissions should be uploaded to CANVAS just as original submittals. Any work submitted after the submission timer will be considered late unless previous arrangements with the instructor have been made. All work submitted late will be subject to a reduction in grade as described above. <u>Work submitted more than 48 hours</u> <u>late will not be graded but MUST be submitted in order to receive completion credit in</u> <u>the course.</u>

FINAL ASSIGNMENTS NOTE

All graded events are mandatory and used to compute your final grade in the course. Failure to submit any required work will result in a lower grade and **you may receive an Incomplete "I" in the course if all assignments have not been submitted.** All submissions are due in class on the date specified on the assignment or the course schedule. Final grades will be determined on the basis of the assignments submitted and the overall class average. If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. .

Laptops/PDAs/iPads/any MP3 players/Cell Phones or other electronic devices:

With the delivery platform consideration for this course all electronic devices necessary to complete the assignments or make connection for participation in the course are approved. Need for electronic devices may be identified specifically for certain class topics. Please be aware that I will **not record** the class through the ZOOM platform. However, with approved absence as arranged above, I will make portions of the lecture available in some format for your review and will provide the address for that download in a timely fashion after the lecture. Lecture recording or photos of board notes is not permitted. Only students with documented and approved SAR will be allowed to use a recording device, but the instructor must have a completed SAR on file and notice given before recording begins.

USE of Artificial Intelligent Systems (AI in Engineering Studies)
Student AI Use Checklist (Read Before You Submit)
Before turning in any assignment, ask yourself the following questions:
Understanding & Learning
- ☐ Did I personally do the thinking, analysis, and problem-solving required for this assignment?
- ☐ Can I explain my solution, design choices, or reasoning without help from AI?
- ☐ Did AI support my learning rather than replace it?
  Appropriate Use
- ☐ Did I only use AI in ways allowed for this type of assignment (homework, lab, project, reflection, etc.)?
- ☐ Did I avoid using AI on quizzes or exams unless explicitly permitted?
- ☐ Did I verify all calculations, results, and technical content myself?
  Integrity & Responsibility
- ☐ Is all submitted work accurate, original, and honestly represented?
- ☐ Did I avoid copying or submitting AI-generated content as my own work?
- ☐ Did I avoid fabricating data, sources, or results using AI?
  Disclosure
- ☐ Did I clearly disclose my AI use at the end of the assignment?
- ☐ Did my disclosure state *what tool* I used and *how* I used it?
  If you answered "no" to any of these questions, revise your work before submitting.
  Remember: using AI responsibly is part of becoming a professional engineer. The goal is not to avoid AI—but to use it ethically, transparently, and thoughtfully.

Additional Academic policies regarding withdrawal from the course, state-mandated course drop rule, grade forgiveness, student rights, absence for religious observance, grade replacement, social security and privacy, learning disability, academic dishonesty and others can be found at http://www.uttyler.edu/academicaffairs/syllabuspolicies.pdf . And are reproduced for your convenience on the CANVAS webpage for the course.